9th Class 2018

Math (Science)	Group-II	Paper-I
Time: 20 Minutes	(Objective Type)	Max Marks: 15

Note: Four possible answers A, B, C and D to each question are given. The choice which you think is correct, fill that circle in front of that question with Marker or Pen ink in the answer-book. Cutting or filling two or more circles will result in zero mark in that question.

1-1- Order of transpose of $\begin{bmatrix} 2 & 1 \\ 0 & 1 \\ 3 & 2 \end{bmatrix}$ **is:**

(a) 3 – by – 2 ✓ (b) 1 – by – 2

(c) 2 – by – 1 (d) 2 – by – 3

2- Every real number is:

(a) A positive integer

(b) A rational number

(c) A negative integer

(d) A complex number ✓

3- log e = ----, where (e ≈ 2.718) :

(a) 0 (b) 0.4343 ✓

(c) ∞ (d) 1

4- Conjugate of surd $a + \sqrt{b}$ is ----- :

(a) $-a + \sqrt{b}$ (b) $a - \sqrt{b}$ ✓

(c) $\sqrt{a} + \sqrt{b}$ (d) $\sqrt{a} - \sqrt{b}$

5- Find 'm' so that $x^2 + 4x + m$ is a complete square:

(a) 8 (b) –8

(c) 4 ✓ (d) 16

6- The square root of $a^2 - 2a + 1$ is ---- :

(a) $\pm(a + 1)$ (b) $\pm(a - 1)$ ✓

(c) $a - 1$ (d) $a + 1$

7- If x is no larger than 10, then ---- :

(a) $x \geq 8$ (b) $x \leq 10$ √

(c) $x < 10$ (d) $x > 10$

8- Point (2, –3) lies in quadrant:

(a) I (b) II

(c) III (d) IV √

9- Mid-point of the points (0, 0) and (2, 2) is:

(a) (1, 1) √ (b) (1, 0)

(c) (0, 1) (d) (–1, –1)

10- Notation used for congruent is:

(a) ⊥ (b) =

(c) ≅ √ (d) ~

11- Notation || means:

(a) Congruent (b) Equal

(c) Parallel √ (d) Un-equal

12- Bisection means to divide into equal parts:

(a) 1 (b) 3

(c) 4 (d) 2 √

13- The unit of ratio is:

(a) kg (b) m

(c) cm (d) None of these √

14- A ray has ---- end points:

(a) 2 (b) 1 √

(c) 3 (d) 4

15- The right bisectors of the three sides of a triangle are ----- :

(a) Congruent (b) Collinear

(c) Concurrent √ (d) Parallel